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Issue 2 Tuesday, January 16, 2018

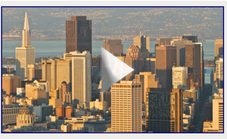
sneak PREVIEW

PHOTONICS MEDIA

SPIE Photonics West – San Francisco, CA

January 30 - February 1

An advanced look at the products, trends and technologies being presented.



San Francisco: Where History Fuels Progression

Each year, the city of San Francisco welcomes the photonics community to the largest international conference and exhibition in the industry — Photonics West. The Moscone Center comes alive with the latest research and the newest products.

It's an ideal place to host such an event, as this city by the bay is well known for its innovation and progressive culture. And it's credited with a dot com surge that is now home to technology hubs including Twitter, Pinterest and Reddit. The future remains bright for San Francisco, but its rich history still shares the spotlight.

Watch Video

sponsor

Featured Exhibitors

PixelCam Multispectral Cameras

From: Ocean Optics Inc.

PixelCam multispectral cameras provide imaging of 3-9 spectral bands at video rates. Simultaneous multi-channel "snapshot" acquisition delivers rich, real-time data without scene change or pixel shift. Dichroic filter arrays are integrated into the focal plane array at wafer level to extract spectral information at visible and infrared wavelengths. PixelCam can be integrated into handheld, mobile and aerial cameras – with the same frame rate, size and power consumption as monochrome cameras.

Visit us: Booth 723

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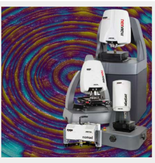
Advanced 3D Surface Metrology

From: Zygo Corporation

Improve productivity and product quality through advanced process control of precision surfaces with noncontact optical profilers from ZYGO. Our innovative metrology solutions provide rapid, quantitative 3D surface metrology of roughness, form, films, steps and dimensional features – without contact or surface preparation. Precisely measure a wide range of surfaces, capturing over one million data points in just seconds.



Visit us: Booth 1223

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Powerful Femtosecond Fiber Lasers

From: TOPTICA Photonics Inc.

The FemtoFiber ultra is a cost-effective, turnkey laser that provides femtosecond pulses at central wavelengths of 780, 1050 or 1560 nm with up to 5 W output power. It is a powerful laser source for nonlinear microscopy applications like effective two-photon excitation of fluorescent proteins and SHG-based contrast mechanisms, as well as micro-lithography.

Visit us: Booths 4645 & 1925

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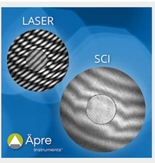
Spectrally Controlled Interferometry

From: Apre Instruments

Spectrally Controlled Interferometry (SCI) electronically controls the interferometer's source coherence. Measure only the surface of interest without the confusing multiple-surface interference that prohibits measurement. Control the coherence for a fast setup in the "laser" mode; then isolate the surface you want to measure in the "white-light" mode; all the way down to 150 µm optical thickness. Contact us today, or visit www.apre-inst.com/sci for more information.



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Rotators, Isolators & Detectors

From: Electro-Optics Technology Inc.

Electro-Optics Technology supplies enabling components and diagnostic equipment for manufacturers and users of high-power laser systems. Products include Faraday rotators and optical isolators for use with laser diodes, fiber lasers and solid-state lasers. EOT also stocks a complete line of photodetectors.

Visit us: Booth 2207, BiOS Booth 8713

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Wavelength Meters – High Accuracy

From: Bristol Instruments Inc.

Bristol Instruments' wavelength meters are used by scientists and engineers who need to know the exact wavelength of their lasers. Systems are available for CW and pulsed lasers that operate at wavelengths from 375 nm to 12 µm. These systems use proven interferometer-based technology to measure absolute wavelength to an accuracy as high as ± 0.0001 nm and offer the fastest sustained measurement rate of 1 kHz.

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Multi-Channel Laser/TEC Controllers

From: Arroyo Instruments LLC

The 7000 Series MultiSource Multi-Channel Controller is designed for applications requiring higher channel counts in a cost-effective and compact solution while still maintaining the performance you would expect from Arroyo Instruments' products. With both laser driver and temperature controller models, the MultiSource is an excellent building block for applications including light source systems and device characterization. Available in low-power and high-power configurations, the MultiSource covers a wide range of applications.

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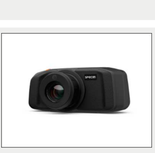
Specim IQ

From: Spectral Imaging Ltd. (SPECIM)

Specim IQ is the world's first mobile hyperspectral camera that allows you to analyze material samples anywhere, in seconds. The Specim IQ camera and the Specim IQ Studio software are easy to adapt and configure for applications in food safety, recycling, health, forestry and many other sectors. The Specim IQ is ideally suited to the needs of the OEM industry for building their own applications for their own clientele.



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WinCamD-IR-BB MWIR/FIR Beam Profiler

From: DataRay Inc.

DataRay's new WinCamD-IR-BB broadband 2 to 16 µm MWIR/FIR beam profiler system includes many industry-leading features, such as: broadband VOx microbolometer; 640 x 480, 10.88 x 8.16 mm active area with 17 µm pixels; port-powered USB 3.0; up to 30 FPS update rate; integrated shutter for automated NUC; and M² measurements. Paired with DataRay's full-featured, user-centric software, the WinCamD-IR-BB is ideally suited for several applications in the mid to far IR.

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TruMicro 5370

From: TRUMPF Inc.

The 343 nm TruMicro 5370 sets a new standard for quick and cost-effective UV micro-machining of various polymers and brittle materials. These regenerative amplified thin-disk lasers deliver an optimal combination of quality, productivity, and profitability, with no limits in terms of industrial suitability. With 30 Watt average power and 75 µJ pulse energy, these picoseconds pulse width lasers impress with their exceptional beam quality, stability and reliability.

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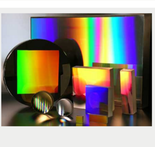
Precision Replicated Mirrors

From: Spectrum Scientific Inc., SSI Optics

Spectrum Scientific, Inc. (SSI) has been manufacturing diffraction gratings and precision optics since 2004, offering a range of standard products as well as high-volume, custom gratings and mirrors.

Our products include blazed holographic diffraction gratings (plane, convex and concave), high precision spherical and aspheric mirrors (on or off-axis parabolic mirrors and elliptical mirrors), hollow retroreflectors (with better than 2 arc seconds accuracy) and freeform mirrors.



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